

Assignment 1

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October 21, 2017



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1 Introduction

2 Steps taken

2.1 Creating a new rails site

```
rails new csa
```

Listing 1: Editing File X

2.2 Generating Scaffolds for Users and Posts

```
rails g scaffold Post title
rails g scaffold Users surname forename phone grad_year:integer jobs:boolean email
```

Listing 2: Editing File X

2.3 Adding constraints to Users

```
class CreateUsers < ActiveRecord::Migration[5.1]
  def change
    create_table :users do |t|
      t.string :surname, null:false
      t.string :forename, null:false
      t.string :phone
      t.integer :grad_year, null:false
      t.boolean :jobs, default: false
      t.string :email, null:false

      t.timestamps
    end

    add_index:users,:surname
    add_index:users,:email
  end
end
```

Listing 3: Editing File X

2.4 Change index routing to Posts

```
Rails.application.routes.draw do
  resources :users
  resources :posts

  root 'posts#index'
end
```

Listing 4: Editing File X

2.5 Update these changes and migrate to the Database

```
rails db:migrate
```

Listing 5: Editing File X

2.6 Adding Users and Body to Posts

2.6.1 Creating a migrate file for adding body

```
rails g migration add_body_to_posts body:text
```

Listing 6: Editing File X

2.6.2 Creating a migrate file for linking tables

```
rails g migration add_user_to_posts user:references
```

Listing 7: Editing File X

2.6.3 Update Post model

```
class Post < ApplicationRecord
  validates_presence_of :title

  belongs_to :user, optional: true
end
```

Listing 8: Editing File X

2.6.4 Update User model

```
class User < ApplicationRecord
  has_many :posts,
    dependent: :destroy
end
```

Listing 9: Editing File X

2.6.5 Updating views for Posts form

To do this we edit the view component of posts, which was generated by the initial scaffold commands

```
<div class="field">
  <%= form.label :email %>
  <%= if post.user
    text_field_tag 'email', post.user.email
  else
    text_field_tag 'email'
  end %>
</div>

<div class="field">
  <%= form.label :body %><br>
  <%= form.text_area :body %>
</div>
```

Listing 10: Editing File X

2.6.6 Updating view for Posts listing

```
<p>
  <strong>Title:</strong>
  <%= @post.title %>
</p>

<p>
  <strong>Email:</strong>
  <% if @post.user %>
    <%= link_to "#{@post.user.email}", @post.user %>
  <% else %>
    Anonymous
  <% end %>
</p>

<p>
  <%= @post.body %>
</p>
```

Listing 11: Editing File X

2.7 **TODO** Paginations

2.8 **TODO** Tabbing

3 **TODO** MVC Model

3.1 **TODO** UML Diagram

3.1.1 Database

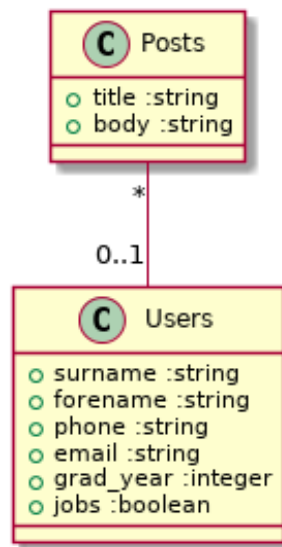


Figure 1: Posts and Users UML

3.1.2 **TODO** What is the Model-2 Variant

3.2 **TODO** Models

3.3 **TODO** Views

3.4 **TODO** Controls

4 Database

4.1 **TODO** Database location

4.2 **TODO** Migration Files

```
rails db:migrate
```